# Intelligent Linear Actuator

**PSL210**
**AMS1x**

**Positioner integrated**

**10 kN**
Max. force )[1]

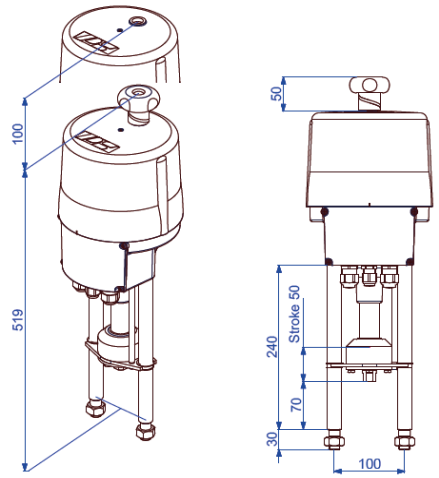
**0.2 - 1.7 mm/s**
**Operating speed**

**Stroke 50 mm**
**opt. 65 mm**

**Modulating actuator**
**Class C**
**DIN EN ISO 22153**

**Enclosure IP65**
**EN 60529**

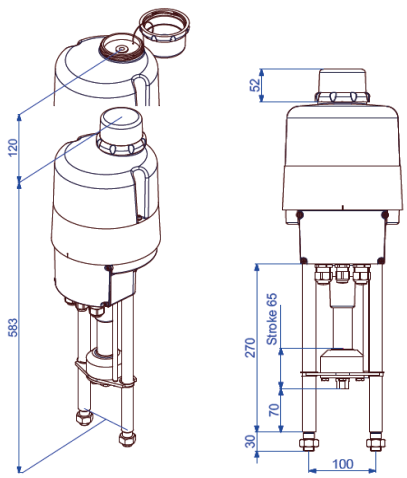
### Stroke 50 (IP65)




*Approx. weight: 10 kg without accessories*

**Dimensions are only valid up to and including connection M16!**

### Stroke 65 (IP67)




*Approx. weight: 10 kg without accessories*

**Dimensions are only valid up to and including connection M16!**

**PSL210 AMS11**

| Operating speed | 0.2 - 0.35 mm/s (adjustable) | | | |
|---|---|---|---|---|
| Power supply [V] | 230 VAC 1~ | 115 VAC 1~ | 24 VAC/DC | 360...575 VAC 3~ )[2] |
| Nominal current )[4] [A] | 0.18 | 0.37 | 1.76(AC) / 1.1(DC) | 0.15 )[3] |
| Max. current )[4] [A] | 0.24 | 0.48 | 2.3(AC) / 1.4(DC) | 0.2 )[3] |
| Power consumption )[5] [W] | 32 | 32 | 30(AC) / 26(DC) | 41 )[3] |

**PSL210 AMS12**

| Operating speed | 0.85 - 1.7 mm/s (adjustable) | | | |
|---|---|---|---|---|
| Power supply [V] | 230 VAC 1~ | 115 VAC 1~ | 24 VAC/DC | 360...575 VAC 3~ )[2] |
| Nominal current )[4] [A] | 0.42 | 0.84 | 4(AC) / 2.5(DC) | 0.31 )[3] |
| Max. current )[4] [A] | 0.55 | 1.1 | 5.3(AC) / 3.3(DC) | 0.4 )[3] |
| Power consumption )[5] [W] | 78 | 78 | 73(AC) / 61(DC) | 82 )[3] |

**Standard equipment**

| Standard | Description |
|---|---|
| Ambient temperature [°C] | -20 to +60 °C |
| Motor protection | Electronic motor current monitoring with safety cut-off |
| Overvoltage category | II |
| Break away force | Adjustable up to +50% nominal force |
| Duty cycle IEC 60034-1,8 | S2 30min S4 50% ED @ 25°C |
| Set value and feedback | 0 (4)..20 mA or 0 (2)..10 V selectable, split range operation |
| Binary control | 24 V - 230 V for ON/OFF control (min. duration of pulse 1s) |
| Valve positioner function | Integrated positioner, deadband adjustable from 0.5 .. 5%, shut-off minimum |
| Automatic start-up | Recognizing the end position(s) and autoscaling set and feedback values |
| Internal fault monitoring | Torque, set value, temperature, power supply, positioning deviation etc., adjustable |
| Fault indication relay FIR | Potential-free opening contact provides a freely definable collective fault signal |
| Diagnostics function | Stores cumulated operation data (motor and total running time, number of motor starts) and data sets of current values (set value, feedback value, torque, temperature and error messages) |
| Communication interface | Connecting to a USB port and a software, allows data reading and parametrisation |
| Cable glands | 2 pcs. M20 x 1,5 and 1 pcs. M16 x 1,5 |

)[1] = permissible average force over the entire travel is 50% of the max. thrust

)[2] = max. imput voltage range

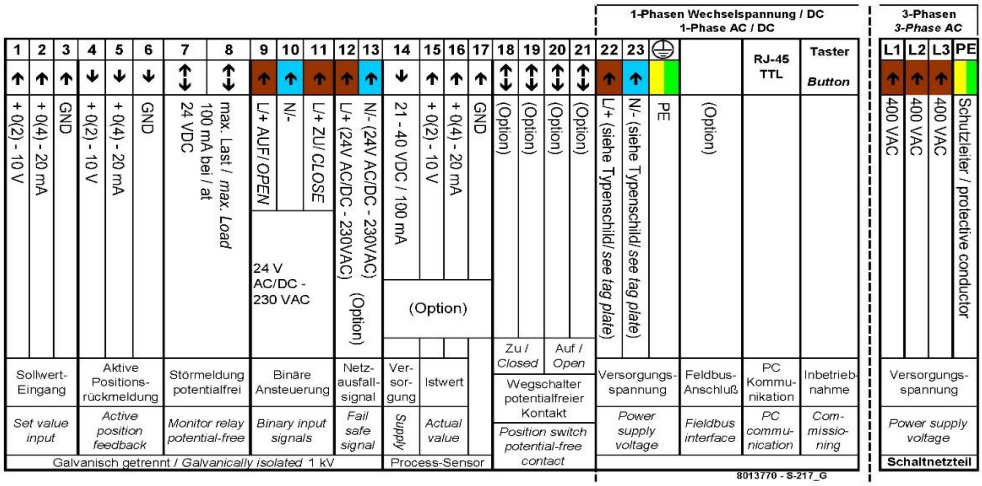
)[3] = at 400 V 3 ~ and 50 Hz

)[4] = data may vary depending on accessories

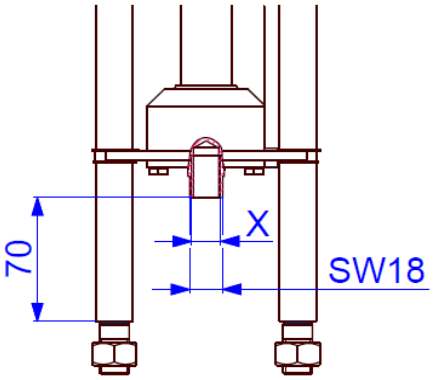
)[5] = at max. force, data may vary depending on accessories

# Technical Data

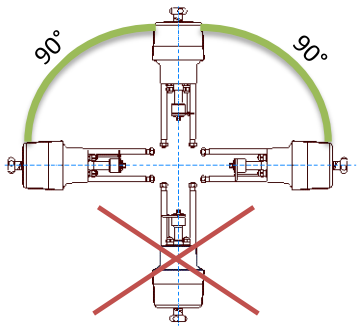
## Electrical connection plan




## Dimensions of the PS standard adaptation




## Mounting position




## Connection Thread X

| | |
|---|---|
| **M8** | Optional |
| **M10** | Optional |
| **M12** | Optional |
| **M14** | Optional |
| **M16** | **Standard** |

*Fine threaded and other sizes on request!*

## Accessories/options

| | | |
|---|---|---|
| Add'l position switches | 2WE | Potential-free additional position switches with silver contacts (0.1 A - 10 A switching current) |
| Add'l position switches gold | 2WE Gold | Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current) |
| Integrated process controller | PSIC | Enables the autonomous control of a process so that an external controller is not required. |
| Fail-safe* | PSCP | Emergency power supply based on supercapacitors, safety position OPEN, CLOSED or free defined position |
| Fieldbus interface* | | Digital transmission of nominal and actual value per mill or percent, report of monitoring and diagnostic data using Profibus DP (PSPDP) or CANOpen (PSCA) interfaces, additional interfaces available on request |
| Local control | PSC.2 | Illuminated display to show the actuator status and lockable selector to switch between modes: automatic, manual process ON/OFF, STOP and parameter menu. Control buttons for manual movement, menu operation and adjustment of parameters, display of diagnostic information |
| Remote local control | | Mounting separately from the actuator (incl. 10 m connection cable) |
| Data cable | PSCS-USB | USB data cable enables the communication between the actuator and a PC by using the software PSCS |
| Fail-safe port* | FSP | Signal port to drive to a "safety position", selectable fail-safe position, standard 24 - 230 V |
| IP67 | | Increased enclosure IP67 |
| Heating resistor | HR | Heating resistor to prevent condensation |

*not retrofittable

**For more information and accessories, please visit our website www.ps-automation.com!**

Subject to changes!